

AMENDMENTS TO THE CLAIMS

This list of Claims will replace all prior versions, and listings, of claims in the Application. The status of each claim is indicated in parenthetical expression following the claim number. All claims currently being amended are shown with deleted text struck through or double-bracketed and new text underlined. Additionally, the status of each claim is indicated in parenthetical expression following the claim number.

Claims 1-96 and 124-129 were previously cancelled.

Claims 97-109 are elected and remain pending in this Application.

Claims 110-123 and 130-133 have been cancelled in this Response.

Claims 134-135 are added.

Listing of Claims

1-96. (Cancelled).

97. (Original) A method for making a polymer material comprising:

- (a) derivatizing carbon nanotubes with functional moieties to form derivatized carbon nanotubes, wherein the functional moieties are derivatized to the carbon nanotubes utilizing a diazonium specie;
- (b) dispersing the derivatized carbon nanotubes in a polymer.

98. (Original) The method of claim 97, wherein the carbon nanotubes are single-wall carbon nanotubes.

99. (Previously presented) The method of claim 97, wherein the functional moieties are chemically bound to the polymer.

100. (Previously presented) The method of claim 97, wherein the functional moieties are not chemically bound to the polymer.

101. (Previously presented) The method of claim 97, wherein the functional moieties are removed after the dispersing step.

102. (Original) The method of claim 101, wherein the removal step comprises heating the dispersal of the derivatized carbon nanotubes and the polymer to a temperature at least about 250°C.

103. (Original) The method of claim 101, wherein the removal step comprises heating the dispersal of the derivatized carbon nanotubes and the polymer to a temperature at least about 600°C.

104. (Previously presented) The method of claim 97, wherein the functional moiety is operable to react with a curing agent.

105. (Previously presented) The method of claim 104, wherein the polymer comprises the curing agent.

106. (Original) The method of claim 104, wherein the curing agent is dispersed in the dispersal of the derivatized carbon nanotubes and the polymer.

107. (Previously presented) The method of claim 104, wherein the curing agent comprises an agent selected from the group consisting of diamines, polymercaptans, and phenol containing materials.

108. (Previously presented) The method of claim 97, wherein the functional moiety is operable to react with a epoxy portion.

109. (Previously presented) The method of claim 108, wherein the polymer comprises the epoxy portion.

110-123. (Cancelled).

124-129. (Cancelled).

130-133. (Cancelled).

134. (New) The method of claim 97, wherein the polymer comprises an elastomer.

135. (New) The method of claim 134, wherein the elastomer is selected from the group consisting of polyethylene, epoxy resin, polypropylene, polycarbonate, and combinations thereof.